

From jerry7proc at yahoo.com Wed Feb 1 15:54:54 2017  
From: jerry7proc at yahoo.com (Jerry Proc)  
Date: Wed, 1 Feb 2017 20:54:54 +0000 (UTC)  
Subject: [BoatAnchors] Cdn Marconi Model 75 Question  
References: <2120787359.2288494.1485982494516.ref@mail.yahoo.com>  
Message-ID: <2120787359.2288494.1485982494516@mail.yahoo.com>

Hello Everyone,

I stumbled upon this mystery while researching something else.

Some of the Canadian Marconi console radios were fitted with an overload indicator. In the service manual for the Model 75 it is described as:

"Model 75 also has an overload indicator, It comes on whenever the audio voltage across the speaker coil exceeds 2.9 volts. It turns off when the voltage drops below 2.5 volts."

There is no clue in the parts list which describes the actual indicator but it does appear as a circle on the schematic to the left of the speaker. What is inside the circle? See schematic snippet.

<http://jproc.ca/test/model75.jpg>

--

Regards,  
Jerry Proc  
E-mail: jerry7proc at yahoo.com

From wn2ami at gmail.com Wed Feb 1 19:39:36 2017  
From: wn2ami at gmail.com (Rj Mattson)  
Date: Wed, 1 Feb 2017 19:39:36 -0500  
Subject: [BoatAnchors] Puck Nether ? Re: BoatAnchors Digest, Vol 288, Issue 1  
Message-ID: <CAJsC02iKU=q3MtouwQ-nqaGurfhv84Bh+CqqtbxuVrnQ0kvDpQ@mail.gmail.com>

I'm confused.

I have the following "Boatanchors" addresses:

boatanchors at puck.nether.net  
boatanchors at theporch.com  
boatanchors at mailman.qth.net

What is "puck.nether.net"

Regards,  
bob...wn2ami x wn2ami 1962

On Wed, Feb 1, 2017 at 1:00 PM, <boatanchors-request at imac.theporch.com> wrote:

```
> Send BoatAnchors mailing list submissions to
>     boatanchors at imac.theporch.com
>
> To subscribe or unsubscribe via the World Wide Web, visit
>     https://imac.theporch.com/mailman/listinfo/boatanchors
> or, via email, send a message with subject or body 'help' to
>     boatanchors-request at imac.theporch.com
>
> You can reach the person managing the list at
>     boatanchors-owner at imac.theporch.com
>
> When replying, please edit your Subject line so it is more specific
> than "Re: Contents of BoatAnchors digest..."
>
> Today's Topics:
>
>     1. A slight change for the list... (List Manager)
>
> ----- Forwarded message -----
> From: List Manager <listown at nanniandjack.com>
> To: BoatAnchors List <boatanchors at theporch.com>
> Cc:
> Date: Tue, 31 Jan 2017 12:54:44 -0700
> Subject: [BoatAnchors] A slight change for the list...
> Hi Gang-
>
> As you may already be aware, Phil has had to make a slight change to how
> the BoatAnchors email list is managed...
>
> For those of you who send posts to boatanchors at theporch.com *NO* change
> is needed...
> However, if you have been posting to boatanchors at minime.theporch.com you
> will need to make a change to:
> boatanchors at imac.theporch.com - a similar change should be made for web
> access
>
> Also, the security certificate was a tad whoppy-jawed, we think we have
> a fix.
>
> Meanwhile, keep those firebottles glowing, and have fun!
> --
> Jack Hill, W4KH - BoatAnchors Listowner/Archiver
> listown at nanniandjack.com
```

> "Plus ca change, plus c'est la meme chose"  
> "Il n'y a que les idiots qui ne changent jamais d'idee"  
>  
>  
>  
> -----  
> BoatAnchors mailing list  
> BoatAnchors at imac.theporch.com  
> <https://imac.theporch.com/mailman/listinfo/boatanchors>  
>  
>

From arc5 at ix.netcom.com Wed Feb 1 20:57:26 2017  
From: arc5 at ix.netcom.com (David Stinson)  
Date: Wed, 1 Feb 2017 19:57:26 -0600  
Subject: [BoatAnchors] BC-9: Showing Her Colors  
Message-ID: <9DAE868D7D474C62B0FACD3F8515683F@DaddyPC>

The BC-9 transceiver case has been restored  
to its 1920s unit markings. I happy.

<https://goo.gl/photos/pwiUxo91WJkMZjF86>  
<https://goo.gl/photos/ak11PqDfhVHciAxa6>

73 OM DE Dave AB5S

P.S. Neil: Did try the 6C4, but it's a low  
to zero-bias triode and wouldn't do the job.  
Still looking for something better.

From arc5 at ix.netcom.com Wed Feb 1 22:34:36 2017  
From: arc5 at ix.netcom.com (David Stinson)  
Date: Wed, 1 Feb 2017 21:34:36 -0600  
Subject: [BoatAnchors] [Boatanchors] BC-9: Showing Her Colors  
In-Reply-To: <d006a3.312c5b89.45c3efa5@aol.com>  
References: <d006a3.312c5b89.45c3efa5@aol.com>  
Message-ID: <A9BBE92751EE44A58D6100E8FCF9CFEA@DaddyPC>

----- Original Message -----

From: <COURYHOUSE at aol.com>  
Subject: Re: [Boatanchors] BC-9: Showing Her Colors

> Very Nice Dave!  
> Have you made antenna yet for it?

Not yet, Ed. Waiting for more "mad money"  
LOL. Going to use 3/8ths copper tubing.  
In the mean time, an external tank coil, link  
coupled to the antenna is delivering just over  
a watt. Keying's not nearly as bad as I would  
have expected, but the freq shift is still a problem.  
73 Dave AB5S

From tarheel6 at msn.com Thu Feb 2 20:26:30 2017  
From: tarheel6 at msn.com (Tom Bridgers)  
Date: Fri, 3 Feb 2017 01:26:30 +0000  
Subject: [BoatAnchors] BC-9: Showing Her Colors  
Message-ID:  
<DM5PR19MB1595B846D91E11C192B3B1ED904F0@DM5PR19MB1595.namprd19.prod.outlook.com>

Dave,  
Fantastic work! Superb in every way.  
Best,  
Tom KE4RHH

Sent from my iPhone

> On Feb 1, 2017, at 8:57 PM, David Stinson <arc5 at ix.netcom.com> wrote:  
>  
> The BC-9 transceiver case has been restored  
> to its 1920s unit markings. I happy.  
>  
> <https://goo.gl/photos/pwiUxo91WJkMZjF86>  
> <https://goo.gl/photos/ak11PqDfhVHciAxa6>  
>  
> 73 OM DE Dave AB5S  
> P.S. Neil: Did try the 6C4, but it's a low  
> to zero-bias triode and wouldn't do the job.  
> Still looking for something better.  
>

From smithab11 at comcast.net Fri Feb 3 10:31:13 2017  
From: smithab11 at comcast.net (B. Smith)  
Date: Fri, 3 Feb 2017 10:31:13 -0500  
Subject: [BoatAnchors] KWM-2 Operations on 60 Meters  
Message-ID: <7827f745-0df3-848b-cbef-440d5cd2a1e2@comcast.net>

I've posted some notes on operating the KWM-2/KWM-2A on 60 meters.

73 k4che

<http://k4che.com/KWM-2-Ops/60-Meter-Ops-KWM-2.htm>

From jerry7proc at yahoo.com Fri Feb 3 11:53:19 2017  
From: jerry7proc at yahoo.com (Jerry Proc)  
Date: Fri, 3 Feb 2017 16:53:19 +0000 (UTC)  
Subject: [BoatAnchors] Cdn Marconi Model 75 Question  
References: <230916316.562345.1486140799530.ref@mail.yahoo.com>  
Message-ID: <230916316.562345.1486140799530@mail.yahoo.com>

Hello Everyone,

I was able to get my question answered from an off-list source.

The overload device is essentially a voltmeter movement.. A light source is positioned behind a circular disc. When the voltage exceeds the "trip" value, the disc flips open and then closes once the voltage drops down to normal.

I guess that was one of Marconi's marketing gimmicks in that period. Hopefully I will be able to locate a photo of the model 75 receiver some day and see how this device looks physically..

--

Regards,  
Jerry Proc  
E-mail: jerry7proc at yahoo.com

-----  
On Wed, 2/1/17, Jerry Proc via BoatAnchors <boatanchors at imac.theporch.com> wrote:

Subject: [BoatAnchors] Cdn Marconi Model 75 Question  
To: boatanchors at theporch.com  
Received: Wednesday, February 1, 2017, 3:54 PM

Hello Everyone,

I stumbled upon this mystery while researching something else.

Some of the Canadian Marconi console radios were fitted with an overload indicator. In the service manual for the Model 75 it is described as:

"Model 75 also has an overload indicator, It comes on whenever the audio voltage across the speaker coil exceeds 2.9 volts. It turns off when the voltage drops below 2.5 volts."

There is no clue in the parts list which describes the actual indicator but it does appear as a circle on the schematic to the left of the speaker. What is inside the circle? See schematic snippet.

<http://jproc.ca/test/model75.jpg>

--

Regards,  
Jerry Proc  
E-mail: [jerry7proc at yahoo.com](mailto:jerry7proc@yahoo.com)

---

BoatAnchors mailing list  
BoatAnchors at [imac.theporch.com](mailto:imac.theporch.com)  
<https://imac.theporch.com/mailman/listinfo/boatanchors>

From arc5 at ix.netcom.com Fri Feb 3 13:17:29 2017  
From: arc5 at ix.netcom.com (David Stinson)  
Date: Fri, 3 Feb 2017 12:17:29 -0600  
Subject: [BoatAnchors] Surprisingly Good Keying  
Message-ID: <95B234A2EBE944759AD02D4032DAAF76@DaddyPC>

BC-9:  
Surprised at how good the keying is on such a simple, primitive transmitter.  
3550 KC. As a reminder, here is the diagram:  
<https://goo.gl/photos/scKooWvzUF5GwHKe6>

Here is a video of the keying:  
<https://goo.gl/photos/hgREwM7fn8uWm7pY6>

I'm hoping to make one or two QSOs during Novice Rig Roundup. We'll see.

73 OM DE Dave AB5S

From arc5 at ix.netcom.com Fri Feb 3 22:51:42 2017  
From: arc5 at ix.netcom.com (David Stinson)

Date: Fri, 3 Feb 2017 21:51:42 -0600  
Subject: [BoatAnchors] BC-9: WOOT! First QSO!  
Message-ID: <0DBF37A8C6B64583B90F60B4956C05E0@DaddyPC>

The BC-9 transmitter is making about a Watt out to my Delta Loop. I answered W5TWT 220 miles away near Austin, not expecting anything and he came right back, 559! We had a nice little QSO with this 96-year-old radio. Ima feelin' like this:  
<http://home.netcom.com/~arc5/happyboy.mp3>

From arc5 at ix.netcom.com Sat Feb 4 17:27:02 2017  
From: arc5 at ix.netcom.com (David Stinson)  
Date: Sat, 4 Feb 2017 16:27:02 -0600  
Subject: [BoatAnchors] Smart People: BC-9 TX/RX Freq Shift- Q?  
Message-ID: <927088573C0D4F0489D841D9930D7B86@DaddyPC>

Aside:  
My Wattmeter was wrong. Scope says the radio is outputting 2 Watts. Powerhouse!

Smart People:  
BC-9 diagram again, for reference:  
<https://goo.gl/photos/scKooWvzUF5GwHKe6>

Was discussing with a friend the problem of the shift in Oscillator frequency between the Receive freq, when the first tube is acting as a regenerative detector with 70V on the plate, and when it is keyed as a TX Oscillator with full 120V on the plate, which shifts the transmit frequency lower by about 12KC+/- . With the B+ shifting so much, the operation freq shifted as well. I said this couldn't have been "normal" because these radios were in service for over a decade and it simply wouldn't have worked this way.

His theory had to do with my "stop-gap" measure to get the radio working without the full loop antenna (I have substituted a tank coil and link-coupled output).  
His position:

"Think of the math factors of the situation and

what is different. The original loop had a certain inductance, a certain distributed capacitance and a certain, small series resistance. It is a very Hi-Q device with, therefore, a very narrow resonance point. You have substituted a link-coupled coil. It has an inductance, a different distributed capacitance and a series resistance, which is much larger than that of the loop. When you switch to Transmit, your greatly increasing the loop currents, the IR losses and distributed capacitance losses, lowering the circuit Q, flattening the resonance curve and thus moving the oscillation point. The problem is not the B+; the problem is the degraded Q of the circuit."

What do you think of his analysis?

73 DE Dave AB5S

From gumbear at pacbell.net Sat Feb 4 21:12:23 2017  
From: gumbear at pacbell.net (Arden Allen)  
Date: Sat, 4 Feb 2017 18:12:23 -0800  
Subject: [BoatAnchors] Smart People: BC-9 TX/RX Freq Shift- Q?  
In-Reply-To: <927088573C0D4F0489D841D9930D7B86@DaddyPC>  
References: <927088573C0D4F0489D841D9930D7B86@DaddyPC>  
Message-ID: <AD5A6197297548D5B865201F509193AB@Lenovo>

> What do you think of his analysis?

It's conjecture. Easy to test though. Change the "Q" by changing the primary-secondary turns ratio and see what happens.

Arden Allen  
KB6NAX

He who is cruel to animals becomes  
hard also in his dealings with men.  
We can judge the heart of a man by  
his treatment of animals.  
?Immanuel Kant

From mxc04040 at nifty.ne.jp Sat Feb 4 21:28:05 2017



From: mxc04040 at nifty.ne.jp (Katsuhiko Hirai)  
Date: Sun, 05 Feb 2017 11:28:05 +0900  
Subject: [BoatAnchors] Smart People: BC-9 TX/RX Freq Shift- Q?  
In-Reply-To: <927088573C0D4F0489D841D9930D7B86@DaddyPC>  
References: <927088573C0D4F0489D841D9930D7B86@DaddyPC>  
Message-ID: <20170205112805.AE28.4E50566@nifty.ne.jp>

Dear Dave, AB5S w/BC-9, and BA folks,

Good evening to you.  
I appreciate your introducing schematics of BC-9.

I had an interest into the schematics and the parts list.  
Because it's so simple and easy for me to copy and build new one by transistors  
in my junk box, rather than looking for elderly pieces of the blockdiagram in  
Osaka's version of parts shopping stores like the AKIBA district in Tokyo.

Then, will you show the whole list of parts,  
in order to know the exact functionality of the circuit?

I'm very sorry to disturb you and appreciate your support.  
Have a nice weekend,  
Best regards,  
Katsuhiko, JA3ECA, exN8EYH/'80s in Dayton, OH

On Sat, 4 Feb 2017 16:27:02 -0600  
David Stinson via BoatAnchors <boatanchors at imac.theporch.com> san wrote:

> Aside:  
> My Wattmeter was wrong. Scope says the  
> radio is outputing 2 Watts. Powerhouse!  
>  
> Smart People:  
> BC-9 diagram again, for reference:  
> <https://goo.gl/photos/scKooWvzUF5GwHKe6>  
>  
> Was discussing with a friend the problem of  
> the shift in Oscillator frequency between the Receive freq, when the first tube  
is acting as a regenerative detector with 70V on  
> the plate, and when it is keyed as a TX Oscillator with full 120V on the plate,  
> which shifts the transmit frequency lower  
> by about 12KC+/- . With the B+ shifting so  
> much, the operation freq shifted as well.  
> I said this couldn't have been "normal" because these radios were in service for  
over a decade and it simply wouldn't have worked this way.  
>

> His theory had to do with my "stop-gap"  
> measure to get the radio working without  
> the full loop antenna (I have substituted  
> a tank coil and link-coupled output).  
> His position:  
>  
> "Think of the math factors of the situation and  
> what is different. The original loop had  
> a certain inductance, a certain distributed  
> capacitance and a certain, small series  
> resistance. It is a very Hi-Q device with,  
> therefore, a very narrow resonance point.  
> You have substituted a link-coupled coil.  
> It has an inductance, a different distributed capacitance and a series  
resistance, which is much larger than that of the loop.  
> When you switch to Transmit, your greatly  
> increasing the loop currents, the IR losses and distributed capacitance losses,  
lowering  
> the circuit Q, flattening the resonance curve  
> and thus moving the oscillation point. The problem is not the B+; the problem  
is the  
> degraded Q of the circuit."  
>  
> What do you think of his analysis?  
>  
> 73 DE Dave AB5S  
>  
> -----  
> BoatAnchors mailing list  
> BoatAnchors at imac.theporch.com  
> <https://imac.theporch.com/mailman/listinfo/boatanchors>  
  
--  
???? <mx04040 at nifty.ne.jp>

From infomet at embarqmail.com Sun Feb 5 10:23:07 2017  
From: infomet at embarqmail.com (Wilson Lamb)  
Date: Sun, 5 Feb 2017 10:23:07 -0500 (EST)  
Subject: [BoatAnchors] Knight T-60  
Message-ID: <1146642639.18526271.1486308187501.JavaMail.root@embarqmail.com>

I never used one as a kid, but picked up a nice clean one at a hamfest last year.  
It sat on a shelf until last week, when it occurred to me to get it out for the CX  
contest.  
I had never had it on, so put it on a Variac and brought it up slowly, with no  
problems.

A check under the chassis showed nice construction and that the filter caps had been changed.

Imagine my surprise when I plugged in a crystal and got a good signal!

I didn't measure the output, but it drives my GG 813s pretty well.

All on 40m, with a fundamental xtal. Keying was excellent.

Are there other T-60 users on here?

I'd like to hear if anyone has measured the output level or put a meter in the plate circuit to determine input power.

I see the final is a 6DQ6 sweep tube, like the DX-20.

Has anyone run one on AM?

How about the output when doubling or tripling?

73,

WL

From 4cx250b at miamioh.edu Sun Feb 5 10:33:13 2017

From: 4cx250b at miamioh.edu (MU 4CX250B)

Date: Sun, 5 Feb 2017 09:33:13 -0600

Subject: [BoatAnchors] Knight T-60

In-Reply-To: <1146642639.18526271.1486308187501.JavaMail.root@embarqmail.com>

References: <1146642639.18526271.1486308187501.JavaMail.root@embarqmail.com>

Message-ID: <4077345148180983863@unknownmsgid>

I've got one I picked up about a year ago in lovely cosmetic shape.

Cute little transmitter, but the wiring was pretty sloppy in mine. I

spent a few hours cleaning it up and replacing caps and it works

great. Nicely designed transmitter. I checked it out on a.m. but

haven't talk to anyone using it on that mode.

73,

Jim w8zr

Sent from my iPhone

> On Feb 5, 2017, at 9:23 AM, Wilson Lamb via BoatAnchors <boatanchors at imac.theporch.com> wrote:

>

> I never used one as a kid, but picked up a nice clean one at a hamfest last year.

> It sat on a shelf until last week, when it occurred to me to get it out for the CX contest.

> I had never had it on, so put it on a Variac and brought it up slowly, with no problems.

> A check under the chassis showed nice construction and that the filter caps had been changed.

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> All on 40m, with a fundamental xtal. Keying was excellent.  
>  
>  
> Are there other T-60 users on here?  
> I'd like to hear if anyone has measured the output level or put a meter in the  
plate circuit to determine input power.  
> I see the final is a 6DQ6 sweep tube, like the DX-20.  
> Has anyone run one on AM?  
> How about the output when doubling or tripling?  
>  
>  
> 73,  
> WL  
> -----  
> BoatAnchors mailing list  
> BoatAnchors at imac.theporch.com  
> <https://imac.theporch.com/mailman/listinfo/boatanchors>

From navy.radio at gmail.com Sun Feb 5 14:12:36 2017  
From: navy.radio at gmail.com (Nick England)  
Date: Sun, 5 Feb 2017 14:12:36 -0500  
Subject: [BoatAnchors] Richmond VA hamfest photos  
Message-ID: <CAB55hNe9U5AusaDina+vBPYrXAVCjQzy\_fNi0hWS4CH6kMfuGA@mail.gmail.com>

I had a good time looking at gear and talking with friends.  
I have posted 120 snapshots of vintage gear that I saw at  
<http://www.virhistory.com/ham/rich-17.htm>

Observations - no Collins except for an R-388 and R-390A.  
Prices seemed pretty fair - some gear flew off the tables...  
Ray's pile of BC-348's was fun to see.  
Pretty good selection of parts for sale - I sold most all of my miniductor  
and variable caps.  
The tables were all sold out, but a number were selling clothes, herbal  
stuff, even bonsai (QRP trees). I guess I wasn't the only crazy person  
there.  
Cheers,  
Nick England K4NYW  
[www.navy-radio.com](http://www.navy-radio.com)

From k7sz at live.com Sun Feb 5 15:36:26 2017  
From: k7sz at live.com (Rich Arland)  
Date: Sun, 5 Feb 2017 20:36:26 +0000  
Subject: [BoatAnchors] WTB: Eico RF Sig Gen needed  
In-Reply-To: <CAB55hNe9U5AusaDina+vBPYrXAVCjQzy\_fNi0hWS4CH6kMfuGA@mail.gmail.com>

References: <CAB55hNe9U5AusaDina+vBPYrXAVCjQzy\_fNiOhWS4CH6kMfuGA@mail.gmail.com>  
Message-ID:  
<DM3PR12MB08747973174EFB801BA2C9EEF6410@DM3PR12MB0874.namprd12.prod.outlook.com>

Looking for an Eico 315 or 324 for my meager workbench.

Pls respond direct: k7sz at live dot com

vy 73

Rich Arland  
K7SZ

From nbroline at austin.rr.com Sun Feb 5 18:18:08 2017  
From: nbroline at austin.rr.com (Nick Broline)  
Date: Sun, 5 Feb 2017 17:18:08 -0600  
Subject: [BoatAnchors] R/T freq Changes  
In-Reply-To: <mailman.0.1486317600.58063.boatanchors@imac.theporch.com>  
References: <mailman.0.1486317600.58063.boatanchors@imac.theporch.com>  
Message-ID: <F423CB95258342F39DA74D3B958E5164@newdualath>

Dave,  
First, congrats on the restoration....it is beautiful!  
I am also assuming your substitute detector/transmitter stage is a 6AQ5 (or whatever) operating as a triode.  
I am guessing your freq shift is due to changes in Miller Capacitance.....something that is significant in triodes, but less so in tetrodes and pentodes. The Miller Capacitance is roughly the static G-P capacity times the stage gain plus 1. Your change from 70V to 120V on the plate will hopefully increase the stage gain! Therefore, there is an inherent change in capacitance between the plate and grid....which is across the frequency-determining L-C circuit.....and whether the L component is a lumped or distributed inductance (like the loop).  
I don't believe the tuned circuit Q has any effect on the tuned frequency. Whether the detector is oscillating in the receive mode or in the transmit mode all of the losses in the LC circuit are compensated for by the gain of the tube, making the Q appear to be infinite when in the active circuit. When the Q is low the tube has to muster up a lot of gain to overcome losses, but when the losses are low, less gain is required. You have already visited the effect of insufficient Q, which caused you to go to a higher gain valve, and you successfully overcame that problem with the puny, legacy tube.

This change in capacitance bites us every time we try to build a single tube

transceiver. Remember the nuvistor 450 mc. transceiver in an early ARRL VHF handbook? The Tx function was NEVER on the same frequency as the Rx function!

The later part of the BC-9 manual goes into great detail of netting a number of BC-9's together. Perhaps some insight might come from a close read????

73

Nick Broline

W5FUA

512 327 7425

We shall not cease from exploration  
And at the end of exploring  
Will be to arrive where we started  
And know the place for the first time.  
T.S. Eliot--"Little Gidding"

From JJan-3 at cox.net Mon Feb 6 00:06:40 2017

From: JJan-3 at cox.net (Jim Hill)

Date: Sun, 05 Feb 2017 21:06:40 -0800

Subject: [BoatAnchors] Puck Nether ? Re: BoatAnchors Digest, Vol 288,  
Issue 1

In-Reply-To: <fcfp1u00p1qvwo01cfq1C>

References: <fcfp1u00p1qvwo01cfq1C>

Message-ID: <20170206050629.HCCK4109.fed1rmfepo203.cox.net@fed1rmimpo210.cox.net>

They are three separate groups named Boatanchors, covering the same general field.

boatanchors at theporch.com is the Boatanchors you are familiar with. Jack Hill (no relation) is in this group.

boatanchors at puck.nether.net used to use a Tempe, AZ server, but had to leave years ago for financial reasons, if I remember correctly. One of the members arranged for them to be part of puck.nether.net. See <https://puck.nether.net/mailman/listinfo/> Most involve exotic (to me) computer fields, but I notice there is a Heath list. Also see <http://puck.nether.net/>. I just noticed a solar power link.

The third group is with mailman.qth.net, associated with QSL.net. This list has over a hundred reflectors covering the ham radio field, and includes many individual ham radio club reflectors. Go to mailman.qth.net and check the directory of lists.

Jim Hill, w6iww

At 04:39 PM 2/1/2017, you wrote:  
>I'm confused.  
>I have the following "Boatanchors" addresses:  
>boatanchors at puck.nether.net  
>boatanchors at theporch.com  
>boatanchors at mailman.qth.net  
>  
>What is "puck.nether.net"  
>  
>Regards,  
>bob...w2ami x wn2ami 1962

From navy.radio at gmail.com Mon Feb 6 19:07:15 2017  
From: navy.radio at gmail.com (Nick England)  
Date: Mon, 6 Feb 2017 19:07:15 -0500  
Subject: [BoatAnchors] gear available - NW Nevada  
Message-ID: <CAB55hNf2NA8FGQwyUg-0T1vc2yCxJ=kZ6605a1g920Eu9N956w@mail.gmail.com>

Via my navy-radio web site I got email and some photos from a person asking if I was interested in any of this gear. I'm not, but you might be - There is an AVR-20-A rcvr and some AAF transmitter (sorry I don't know AAF gear), and what looks like a 1940's homebrew transmitter and power supply.

Photos and contact info is at  
<http://www.virhistory.com/ham/nevada-17.htm>

She said it was OK to let my friends know it was available.  
I don't know anything else.

Nick England K4NYW  
[www.navy-radio.com](http://www.navy-radio.com)

From arc5 at ix.netcom.com Tue Feb 7 20:41:19 2017  
From: arc5 at ix.netcom.com (David Stinson)  
Date: Tue, 7 Feb 2017 19:41:19 -0600  
Subject: [BoatAnchors] BC-9: Loop Antenna Trial  
Message-ID: <0210C1F808BD4985B5653A6C4498C289@DaddyPC>

I sure hope this "trial" loop antenna works the first time. That's \$40 worth of copper!

<https://goo.gl/photos/BqNJdJJZdw5pwBJyQ9>

It is 12 feet in circum. like the original so it may not tune low enough. I have extensions ready to include if needed to "rubber" it down to 80 CW instead of the original bottom of 75 meters. If it works, it will get cleaned and painted black like the original.

73 DE Dave AB5S

From arc5 at ix.netcom.com Tue Feb 7 21:19:35 2017  
From: arc5 at ix.netcom.com (David Stinson)  
Date: Tue, 7 Feb 2017 20:19:35 -0600  
Subject: [BoatAnchors] Smart People: BC-9 TX/RX Freq Shift- Q?  
In-Reply-To: <20170205112805.AE28.4E50566@nifty.ne.jp>  
References: <927088573C0D4F0489D841D9930D7B86@DaddyPC>  
<20170205112805.AE28.4E50566@nifty.ne.jp>  
Message-ID: <893674A9C0F5494EA8EEAA1F503D645C@DaddyPC>

Hello again. Here is the diagram with parts listed at the bottom and those not listed noted in red on the diagram.  
<https://goo.gl/photos/UVyCWK7noMZ9FWV37>  
I hope this will help.  
GL OM ES 73 DE Dave AB5S

----- Original Message -----

From: "Katsuhiko Hirai" <mxc04040 at nifty.ne.jp>  
> I appreciate your introducing schematics of BC-9.  
>  
> I had an interest into the schematics and the parts list.  
> Because it's so simple and easy for me to copy and build new  
> one by transistors  
> in my junk box, rather than looking for elderly pieces of the  
> blockdiagram in  
> Osaka's version of parts shopping stores like the AKIBA  
> district in Tokyo.

From arc5 at ix.netcom.com Wed Feb 8 07:28:04 2017  
From: arc5 at ix.netcom.com (David Stinson)  
Date: Wed, 8 Feb 2017 06:28:04 -0600  
Subject: [BoatAnchors] Smart People: BC-9 TX/RX Freq Shift- Q?  
In-Reply-To: <893674A9C0F5494EA8EEAA1F503D645C@DaddyPC>  
References: <927088573C0D4F0489D841D9930D7B86@DaddyPC>



<20170205112805.AE28.4E50566@nifty.ne.jp>  
<893674A9C0F5494EA8EEAA1F503D645C@DaddyPC>  
Message-ID: <414FE58DC3CA40698E5941491EA7DA48@DaddyPC>

P.S. I'm sorry, I do not know the turns ratio of the interstage transformers. Perhaps members who are more familiar with these very early audio amplifiers will have some insight.  
73 Dave S.

From infomet at embarqmail.com Wed Feb 8 14:46:06 2017  
From: infomet at embarqmail.com (Wilson Lamb)  
Date: Wed, 8 Feb 2017 14:46:06 -0500 (EST)  
Subject: [BoatAnchors] Battle Announcing Amplifier  
In-Reply-To: <1659599600.21583691.1486582786090.JavaMail.root@embarqmail.com>  
Message-ID: <1820692687.21589090.1486583166602.JavaMail.root@embarqmail.com>

Long ago and far away, when I was young, one of our family's basement curiosities was a "battle announcing amplifier". It was good for several hundred watts and we frequently discussed using it as a modulator, but it weighed way over 100 lbs and nothing came of the idea. I do have two transformers which I think may have come from it, however. Both are in square cornered steel cases, with phenolic bottom plates. The power transformer is a no brainer, since it's terminals are labeled with voltages...105-120, tapped, and 2900 VCT, about 60lb. The other may have been output, but it seems small, maybe 25 lb, with several terminals with non obvious markings. Structurally, the construction was center panel, although there was no panel, just brackets, likely for convenient access. If it was for battle announcing, it certainly didn't go to the beach, so maybe there was an array of horns on the ship? Or could it have been a giant PA amp, covering the whole ship? Has anyone ever heard of these amps, have a model number, or any experience with them? And if you need a mondo power tranny, let me know. It's gotta be way over a KW capable, but at pretty low voltage.  
WL

From cbmcgr at gmail.com Wed Feb 8 15:26:50 2017  
From: cbmcgr at gmail.com (Chuck McGregor)  
Date: Wed, 8 Feb 2017 12:26:50 -0800  
Subject: [BoatAnchors] Battle Announcing Amplifier  
In-Reply-To: <1820692687.21589090.1486583166602.JavaMail.root@embarqmail.com>  
References: <1659599600.21583691.1486582786090.JavaMail.root@embarqmail.com>  
<1820692687.21589090.1486583166602.JavaMail.root@embarqmail.com>  
Message-ID: <CAFTq00RPNJu88qUXT++iy21h0vpQpq2coa85vX+rBx4wB\_Q3Zw@mail.gmail.com>

Wilson-

Search for "Beachmaster Amplifier"

<http://www.audioheritage.org/vbulletin/showthread.php?24123-Western-Electric-Beach-Master-info>

They were used on invasion beaches after defenses had been cleared, to organize the movement of cargo (ammunition, food, etc) across the beaches and inland. This was before we had the technology to put a transceiver on every jeep and amphibian used on the beach.

-Chuck

On Wed, Feb 8, 2017 at 11:46 AM, Wilson Lamb via BoatAnchors <[boatanchors@imac.theporch.com](mailto:boatanchors@imac.theporch.com)> wrote:

> Long ago and far away, when I was young, one of our family's basement  
> curiosities was a "battle announcing amplifier".  
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> as a modulator, but it weighed way over 100 lbs and nothing came of the  
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> WL  
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> BoatAnchors mailing list  
> BoatAnchors at [imac.theporch.com](mailto:imac.theporch.com)  
> <https://imac.theporch.com/mailman/listinfo/boatanchors>  
>

From ranickel at comcast.net Wed Feb 8 15:36:14 2017

From: ranickel at comcast.net (Robert Nickels)

Date: Wed, 8 Feb 2017 14:36:14 -0600

Subject: [BoatAnchors] Battle Announcing Amplifier

In-Reply-To: <1820692687.21589090.1486583166602.JavaMail.root@embarqmail.com>

References: <1820692687.21589090.1486583166602.JavaMail.root@embarqmail.com>  
Message-ID: <600e6022-448d-f813-3d14-91426563930b@comcast.net>

On 2/8/2017 1:46 PM, Wilson Lamb via BoatAnchors wrote:

> Has anyone ever heard of these amps, have a model number, or any experience with them?

Yes to the former. I've settled for the very junior version myself - the hand-held "bullhorn".

Your transformer came from the PAB-1 "Beachmaster Announcing Equipment" system built for the Army by Western Electric. The system included the amplifier which used 813 tubes in the output stage, an elaborate power speaker system, spares, and a gasoline generator. The Army considered it "semi-portable" which probably referred to requiring less than a full platoon to haul it around.

An overview can be found here:

[http://www.smecc.org/war\\_radios\\_radar/beachmaster1\\_smecc3.jpg](http://www.smecc.org/war_radios_radar/beachmaster1_smecc3.jpg)

A listing of what was supplied for spare parts can be found here:

<http://www.milweb.net/webverts/46483/>

You can see your transformer amongst them. I rarely watch "Pawn Stars" but did catch one episode where someone drags the amplifier into the pawn shop and the owner calls his "expert" to take a look at it. The "expert" pronounced it to be "old" and generally disparaged the thing, and I don't think they bought it, even though it would probably have sold quickly to audio guys.

73, Bob W9RAN

From wa9jml at frontier.com Wed Feb 8 16:03:53 2017

From: wa9jml at frontier.com (Steve Berg)

Date: Wed, 8 Feb 2017 15:03:53 -0600

Subject: [BoatAnchors] Battle Announcing Amplifier

In-Reply-To: <600e6022-448d-f813-3d14-91426563930b@comcast.net>

References: <1820692687.21589090.1486583166602.JavaMail.root@embarqmail.com>  
<600e6022-448d-f813-3d14-91426563930b@comcast.net>

Message-ID: <4e49687a-74c7-dd60-4e6b-8726f5afaace@frontier.com>

When I worked for IIT Research Institute, I once managed to meet Marvin Camras. He was the engineer who developed bias for wire and later, tape recorders. He told me that as a decoy for the Normandy Invasion, he helped build a wire playback system, with a large audio amplifier, all powered by generators. They had recorded some sounds from the invasions

of Japanese held islands, and then these high powered playback systems were dropped off by commandos, and fired up to sound like firefights, and distract the Germans from the actual invasion sites.

Steve WA9JML

From navy.radio at gmail.com Wed Feb 8 16:43:05 2017  
From: navy.radio at gmail.com (Nick England)  
Date: Wed, 8 Feb 2017 16:43:05 -0500  
Subject: [BoatAnchors] Battle Announcing Amplifier  
In-Reply-To: <1820692687.21589090.1486583166602.JavaMail.root@embarqmail.com>  
References: <1659599600.21583691.1486582786090.JavaMail.root@embarqmail.com>  
<1820692687.21589090.1486583166602.JavaMail.root@embarqmail.com>  
Message-ID: <CAB55hNefA=J0xw+FBC1B\_JS0mrTk+g8QvqueJgVstwaXj9YVig@mail.gmail.com>

Well, "Battle Announcing Equipment" is not the same as "Beachmaster Announcing Equipment".

"Battle Announcing Equipment" was the name used for shipboard PA equipment like the 1MC (general announcing & alarm sounds), and other similar announcing circuits. Many of these amps were made by RCA as well as by Western Electric.

(note either one of these might mean you have some "audiophile gold").

A larger ship might have over 100 speakers and the amp had to provide enough power to overcome shipboard noise.

Nick England K4NYW  
www.navy-radio.com

On Wed, Feb 8, 2017 at 2:46 PM, Wilson Lamb via BoatAnchors <boatanchors at imac.theporch.com> wrote:

> Long ago and far away, when I was young, one of our family's basement  
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> BoatAnchors mailing list  
> BoatAnchors at imac.theporch.com  
> <https://imac.theporch.com/mailman/listinfo/boatanchors>  
>

From navy.radio at gmail.com Wed Feb 8 16:53:48 2017  
From: navy.radio at gmail.com (Nick England)  
Date: Wed, 8 Feb 2017 16:53:48 -0500  
Subject: [BoatAnchors] Battle Announcing Amplifier  
In-Reply-To: <CAB55hNefA=J0xw+FBC1B\_JS0mrTk+g8QvqueJgVstwaXj9YVig@mail.gmail.com>  
References: <1659599600.21583691.1486582786090.JavaMail.root@embarqmail.com>  
<1820692687.21589090.1486583166602.JavaMail.root@embarqmail.com>  
<CAB55hNefA=J0xw+FBC1B\_JS0mrTk+g8QvqueJgVstwaXj9YVig@mail.gmail.com>  
Message-ID: <CAB55hNd0YPTA9\_MLzygEpR8334Wz9ARrD14tFhG7Nany+frtRQ@mail.gmail.com>

Here's an example -  
The USS Pampanito submarine has scans of their 1MC/7MC equipment  
<https://maritime.org/tech/drawings/1mc/index.htm>  
The 125w power amp schematic is here -  
[https://maritime.org/tech/drawings/1mc/1mc-power-amplifier\\_ss313-s6502-12895alt2\\_5400-08-0260.jpg](https://maritime.org/tech/drawings/1mc/1mc-power-amplifier_ss313-s6502-12895alt2_5400-08-0260.jpg)  
This RCA amp has a pair of 2A3's driving four 809's.

Nick England K4NYW  
[www.navy-radio.com](http://www.navy-radio.com)

On Wed, Feb 8, 2017 at 4:43 PM, Nick England <navy.radio at gmail.com> wrote:

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>> <https://imac.theporch.com/mailman/listinfo/boatanchors>  
>>  
>  
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From infomet at embarqmail.com Wed Feb 8 19:25:32 2017  
From: infomet at embarqmail.com (Wilson Lamb)  
Date: Wed, 8 Feb 2017 19:25:32 -0500 (EST)  
Subject: [BoatAnchors] Battle Announcing Amplifier  
In-Reply-To: <CAB55hNd0YPTA9\_MLzygEpR8334Wz9ARrD14tFhG7Nany+frtRQ@mail.gmail.com>  
Message-ID: <420448474.21840334.1486599932871.JavaMail.root@embarqmail.com>

Bingo, awesome job Nick!

The submarine system is not exactly it, but very close, maybe later.  
XFMR taps are mostly the same, but a few more than on mine and the numbers are off a little.

Judging by the circuitry, the one on Pampanito is a little later.

It has some fancy negative feedback from dedicated windings on the output XFMR.

Now to find out if anyone on the sub or elsewhere wants these XFMRs. I sure don't have a plan for them!

If anyone has more info, please send it on.

Lots of things were overbuilt during WWII. but 600 lb for a PA amp is a bit muchh even for then!

Thanks Nick!

WL

----- Original Message -----

From: "Nick England" <navy.radio at gmail.com>

To: "Wilson Lamb" <infomet at embarqmail.com>

Cc: "Old Tube Radios" <boatanchors at theporch.com>

Sent: Wednesday, February 8, 2017 9:53:48 PM

Subject: Re: [BoatAnchors] Battle Announcing Amplifier

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BoatAnchors mailing list

BoatAnchors at imac.theporch.com

<https://imac.theporch.com/mailman/listinfo/boatanchors>

</blockquote>

From arc5 at ix.netcom.com Thu Feb 9 00:15:27 2017

From: arc5 at ix.netcom.com (David Stinson)

Date: Wed, 8 Feb 2017 23:15:27 -0600

Subject: [BoatAnchors] BC-9 Loop Test: Scratching My Head.

In-Reply-To: <893674A9C0F5494EA8EEAA1F503D645C@DaddyPC>

References:

<927088573C0D4F0489D841D9930D7B86@DaddyPC><20170205112805.AE28.4E50566@nifty.ne.jp

>

<893674A9C0F5494EA8EEAA1F503D645C@DaddyPC>  
Message-ID: <00E58EC2273B4A65A4F776F3F444808D@DaddyPC>

Well, I set the BC-9 up on the front porch with the loop. Not enough room on the barn bench.  
<https://goo.gl/photos/JUyd5kSeLdZkKK5p9>

The loop is very close to the original's size- about 12 feet around. It tunes 4.2-4.4 MC, roughly the designed spread. I put on the extensions and that brought it down into the 75 mtr band.

Using the Hi-Q loop meant the higher gain of the triode-connected 6AQ5 is no longer needed and an 01A in the RF stage now oscillates just as it should. The lower gain should reduce the "Miller Effect" and reduce the frequency shifting between TX and RX.

But here's the head scratcher- It didn't. Big copper loop or external tank coil with link coupling to an antenna or length of RG8, they all exhibit transmit freq. dropping 12-14 KC from the receiver freq. Higher-Q loop with lower gain tube made no difference at all.

I just don't get it. This rig is now operating as designed. This model was built from 1921 to 1931 at least. It was in service all that time. Yet I cannot see how these could have been "netted." Stumped....

73 DE Dave AB5S

From arc5 at ix.netcom.com Thu Feb 9 08:30:08 2017  
From: arc5 at ix.netcom.com (David Stinson)  
Date: Thu, 9 Feb 2017 07:30:08 -0600  
Subject: [BoatAnchors] Battle Announcing Amplifier  
In-Reply-To: <420448474.21840334.1486599932871.JavaMail.root@embarqmail.com>  
References: <420448474.21840334.1486599932871.JavaMail.root@embarqmail.com>  
Message-ID: <1A964DFAC3524B2DA95CB1F0FB48925E@DaddyPC>

----- Original Message -----  
From: "Wilson Lamb via BoatAnchors"

<boatanchors at imac.theporch.com>

> Lots of things were overbuilt during WWII. but 600 lb for a PA  
> amp

Extra ballast to keep her on an even keel!

From dxguy at earthlink.net Thu Feb 9 08:33:27 2017

From: dxguy at earthlink.net (don davis)

Date: Thu, 9 Feb 2017 05:33:27 -0800

Subject: [BoatAnchors] BC-9 Loop Test: Scratching My Head.

In-Reply-To: <00E58EC2273B4A65A4F776F3F444808D@DaddyPC>

References:

<927088573C0D4F0489D841D9930D7B86@DaddyPC><20170205112805.AE28.4E50566@nifty.ne.jp

>

<893674A9C0F5494EA8EEAA1F503D645C@DaddyPC>

<00E58EC2273B4A65A4F776F3F444808D@DaddyPC>

Message-ID: <!!&!

AAAAAAAAAAAAAYAAAAAAAAA03NLm+r0kBFo+eoE0IVyavCgAAAEAAAAABupFInnziJGn1cFli/

0FfMBAAAAAA==@earthlink.net>

What are you using for battery replacements? Possibly not same as batts.  
Could replace with modern ps and series R to simulate?

73 de don ad6pb

-----Original Message-----

From: BoatAnchors [mailto:boatanchors-bounces at imac.theporch.com] On Behalf  
Of David Stinson via BoatAnchors

Sent: Wednesday, February 08, 2017 9:15 PM

To: boatanchors at theporch.com; boatanchors at mailman.qth.net;

mrca at mailman.qth.net; milsurplus at mailman.qth.net

Subject: [BoatAnchors] BC-9 Loop Test: Scratching My Head.

From arc5 at ix.netcom.com Thu Feb 9 09:08:04 2017

From: arc5 at ix.netcom.com (David Stinson)

Date: Thu, 9 Feb 2017 08:08:04 -0600

Subject: [BoatAnchors] BC-9 Loop Test: Scratching My Head.

In-Reply-To: <!!&!

AAAAAAAAAAAAAYAAAAAAAAA03NLm+r0kBFo+eoE0IVyavCgAAAEAAAAABupFInnziJGn1cFli/

0FfMBAAAAAA==@earthlink.net>

References:

<927088573C0D4F0489D841D9930D7B86@DaddyPC><20170205112805.AE28.4E50566@nifty.ne.jp

>  
<893674A9C0F5494EA8EEAA1F503D645C@DaddyPC>  
<00E58EC2273B4A65A4F776F3F444808D@DaddyPC>  
<!&!AAAAAAAAAAAAAYAAAAAAAAA03NLm+r0kBFo+eoEOIVyavCgAAAAEAAAABupFInnziJGn1cFli/  
0FfMBAAAAA==@earthlink.net>  
Message-ID: <ABB6CF1B27524CF99A196D044A02846C@DaddyPC>

----- Original Message -----

From: "don davis" <dxguy at earthlink.net>

Subject: RE: [BoatAnchors] BC-9 Loop Test: Scratching My Head.

> What are you using for battery replacements? Possibly not same  
> as batts.  
> Could replace with modern ps and series R to simulate?

Good idea!

I'm using DC-DC converters with RF bypassing.

So it isn't exactly "as designed," afterall.

Worth investigating.

From mxc04040 at nifty.ne.jp Thu Feb 9 13:50:08 2017

From: mxc04040 at nifty.ne.jp (Katsuhiko Hirai)

Date: Fri, 10 Feb 2017 03:50:08 +0900

Subject: [BoatAnchors] Smart People: BC-9 TX/RX Freq Shift- Q?

In-Reply-To: <414FE58DC3CA40698E5941491EA7DA48@DaddyPC>

References: <893674A9C0F5494EA8EEAA1F503D645C@DaddyPC>

<414FE58DC3CA40698E5941491EA7DA48@DaddyPC>

Message-ID: <20170210035008.C1B4.4E50566@nifty.ne.jp>

Dear Dave, AB5S

Good morning.

I appreciated your kind note.

I found one example of the audio frequency transformer into the article  
as follows:

Issue: AUG 1925 - QST (PG. 16)

Title: The DeForest D-17 Receiver which includes two A.F.T.

Author: Livingstone, Edward A.

Article: QST Archive [PDF]

Copied sentences:

" First A.F. Transformer--(11)-- Ratio;5:1. DeForest type A-50. Turns:

Primary 2800 of No.38 wire. Secondary 14,000 of No.40 wire. D.C. Resistance:

Primary 540 ohms; secondary 7370 ohms. Impedance: Primary 60,000 ohms; secondary 1,500,000 ohms. Inductance at 1000 cycles: Primary 9 henries; secondary 250 henries.

Second A.F. Transformer--(12)-- Ratio: 3.5:1. De Forest type A-35. Turns: Primary 2800 of No.38 wire. Secondary 9800 No. 40 wire. D.C. Resistance: Primary 540 ohms; secondary 5160 ohms. Impedance: Primary 55,000 ohms. secondary 680,000 ohms. Inductance at 1000 cycles: Primary 8.5 henries; secondary 102 henries. In both cases the closed core is of laminated silicon transformer steel 5/8 inch square and is sufficiently large to permit maximum amplification without distortion over all frequencies. "

I'm happy if these notes were helpful for you, although you might know it well.

Have a nice new day for you,  
Best regards,  
Katsuhiko Hirai, JA3ECA

On Wed, 8 Feb 2017 06:28:04 -0600

"David Stinson" <arc5 at ix.netcom.com> san wrote:

> P.S. I'm sorry, I do not know the turns ratio of the interstage transformers. Perhaps members who are more familiar with these very early audio amplifiers will have some insight.

> 73 Dave S.

--

???? <mxc04040 at nifty.ne.jp>

From n9hrt at sbcglobal.net Thu Feb 9 15:55:40 2017

From: n9hrt at sbcglobal.net (JOHN MCCARTY)

Date: Thu, 9 Feb 2017 20:55:40 +0000 (UTC)

Subject: [BoatAnchors] [Milsurplus] BC-9 Loop Test: Scratching My Head.

In-Reply-To: <00E58EC2273B4A65A4F776F3F444808D@DaddyPC>

References: <927088573C0D4F0489D841D9930D7B86@DaddyPC>

<20170205112805.AE28.4E50566@nifty.ne.jp>

<893674A9C0F5494EA8EEAA1F503D645C@DaddyPC>

<00E58EC2273B4A65A4F776F3F444808D@DaddyPC>

Message-ID: <1549735875.1573515.1486673740774@mail.yahoo.com>

Nice work Dave.

How did you attach the loop to the back of the set??

tnx + 73

John n9hrt

From: David Stinson <arc5 at ix.netcom.com>  
To: boatanchors at theporch.com; boatanchors at mailman.qth.net; mrca at mailman.qth.net; milsurplus at mailman.qth.net  
Sent: Wednesday, February 8, 2017 11:15 PM  
Subject: [Milsurplus] BC-9 Loop Test: Scratching My Head.

Well, I set the BC-9 up on the front porch with the loop.? Not enough room on the barn bench.  
<https://goo.gl/photos/JUyd5kSeLdZkKK5p9>

From smithab11 at comcast.net Thu Feb 9 16:20:29 2017  
From: smithab11 at comcast.net (B. Smith)  
Date: Thu, 9 Feb 2017 16:20:29 -0500  
Subject: [BoatAnchors] Heath QF-1 and KWM-2 Ops  
Message-ID: <27228c31-64dd-a2b1-5947-4f9a6c2e2921@comcast.net>

While I had the KWM-2A on the bench I explored using the Heathkit QF-1 Q Multiplier.  
73 k4che

<http://k4che.com/KWM-2-QF-1/KWM-2-QF-1.htm>

From thompson at mindspring.com Thu Feb 9 17:39:30 2017  
From: thompson at mindspring.com (Dave Thompson)  
Date: Thu, 9 Feb 2017 17:39:30 -0500 (GMT-05:00)  
Subject: [BoatAnchors] Heath QF-1 and KWM-2 Ops  
Message-ID: <21549334.18078.1486679970819@elwamui-hybrid.atl.sa.earthlink.net>

You can use a 9 pin test socket like the Hammarlund HC-10 does to connect to the iF. I have 9 and 7 pin test sockets I got off Ebay a few years ago. Waters also made a multiplier for the kwm2 but they are hard to find a heath version is just as good.  
74 Dave K4JRB

PS you might send this to The Collins collector group and Electric Radio as they love this stuff.

-----Original Message-----

>From: "B. Smith via BoatAnchors" <boatanchors at imac.theporch.com>  
>Sent: Feb 9, 2017 4:20 PM  
>To: boatanchors at theporch.com  
>Subject: [BoatAnchors] Heath QF-1 and KWM-2 Ops



>  
>While I had the KWM-2A on the bench I explored using the Heathkit QF-1 Q  
>Multiplier.  
>73 k4che  
>  
><http://k4che.com/KWM-2-QF-1/KWM-2-QF-1.htm>  
>  
>-----  
>BoatAnchors mailing list  
>BoatAnchors at [imac.theporch.com](mailto:imac.theporch.com)  
><https://imac.theporch.com/mailman/listinfo/boatanchors>

From w4sse at cox.net Fri Feb 10 19:56:41 2017  
From: w4sse at cox.net (W4SSE)  
Date: Fri, 10 Feb 2017 19:56:41 -0500  
Subject: [BoatAnchors] Gaertner-Grater TSM-75K Transmitter  
Message-ID: <0f9d2c46-a235-786d-8720-f75b521329f9@cox.net>

Anyone ever heard of a TSM-75K transmitter manufactured by Gaertner-Grater Corporation out of Los Angeles, CA? A friend of mine was setting it out on his flea market table at the Richmond Frostfest last Saturday and I suggested he let me take it and do some research before he gave it away. It uses an 829 in the final so it was likely designed for 6 or 2 meters. I've taken a few photos and here are the links:

[http://w4sse.vacau.com/tsm\\_75k\\_1.jpg](http://w4sse.vacau.com/tsm_75k_1.jpg)

[http://w4sse.vacau.com/tsm\\_75k\\_2.jpg](http://w4sse.vacau.com/tsm_75k_2.jpg)

[http://w4sse.vacau.com/tsm\\_75k\\_3.jpg](http://w4sse.vacau.com/tsm_75k_3.jpg)

[http://w4sse.vacau.com/tsm\\_75k\\_4.jpg](http://w4sse.vacau.com/tsm_75k_4.jpg)

[http://w4sse.vacau.com/tsm\\_75k\\_5.jpg](http://w4sse.vacau.com/tsm_75k_5.jpg)

I could not find any mention of it on the Internet so I'm hoping someone in the group will be familiar with it. It uses an external power supply which my friend did not get with the unit.

Thanks and 73,

David - W4SSE

From arc5 at ix.netcom.com Sat Feb 11 04:06:23 2017  
From: arc5 at ix.netcom.com (David Stinson)

Date: Sat, 11 Feb 2017 03:06:23 -0600  
Subject: [BoatAnchors] BC-9 Diagram "Modernized"  
Message-ID: <1C54EF5B60C34424BA76BD6E17EE2AB6@DaddyPC>

Mike Bittner, W6MAB, has kindly re-drawn the  
BC-9 diagram in a more "modern" form.  
<https://goo.gl/photos/JPJDtNEKxhmPRMsq8>  
I've found it helpful in thinking about the rig.  
73 Dave S.

From dave at horsfall.org Sat Feb 11 20:29:14 2017  
From: dave at horsfall.org (Dave Horsfall)  
Date: Sun, 12 Feb 2017 12:29:14 +1100 (EST)  
Subject: [BoatAnchors] BC-9 Diagram "Modernized"  
Message-ID: <alpine.BSF.2.20.1702121213020.46495@aneurin.horsfall.org>

Well, that's certainly a lot more readable :-)

I'm still baffled by how it works, though.,, I'm guessing that it switches to RX upon key-up, but how does the first valve get HT? Unless it's that tortuous path through the meter, the primary of the first transformer, the 100K resistor, and the choke? How does it oscillate? The one tuned circuit I can see seems to be fixed, but could it involve the variable capacitors (why two of them?) across the loop antenna? And what exactly do S1 and S3 do? S3 seems to short out the 0.5 resistor, which I guess changes the bias? But S1 seems to change the bias as well, with the pot being the volume/gain control?

Sorry for all the questions, but this is a most unusual rig; talk about a minimalist design... I guess the "Theory of Operation" manual is long out of print :-)

--

Dave Horsfall DTM (VK2KFU) "Those who don't understand security will suffer."

From mxc04040 at nifty.ne.jp Sat Feb 11 23:01:15 2017  
From: mxc04040 at nifty.ne.jp (Katsuhiko Hirai)  
Date: Sun, 12 Feb 2017 13:01:15 +0900  
Subject: [BoatAnchors] BC-9 Diagram "Modernized"  
In-Reply-To: <alpine.BSF.2.20.1702121213020.46495@aneurin.horsfall.org>  
References: <alpine.BSF.2.20.1702121213020.46495@aneurin.horsfall.org>  
Message-ID: <20170212130114.EAC8.4E50566@nifty.ne.jp>

Dear Dave, VK2KFU

Good afternoon from Japan.  
It's so beautiful day with the clean navey-blue sky in Nara, Japan.

Well, regarding your asking "How does it oscillate?"  
The switch S3 is for change the mode between send and recv on BC-9A.  
Because the oscillation would be activate when the S3 is closed for providing volume of free electrons into the cathode. Then the plate current will be increased to expand to amplify into causing to oscillate in minimum. Under closing the S3, when the Key is closed, the DC +120V would be provided into the plate directly. During keying-on, the full power of VT-1 tube would be generated in maximum, 5Watts(?), I suspect.

Does anyone have more reliable idea?

Have a nice imagining,  
Best regards,  
Katsuhiko Hirai, JA3ECCA

On Sun, 12 Feb 2017 12:29:14 +1100 (EST)  
Dave Horsfall via BoatAnchors <boatanchors at imac.theporch.com> san wrote:

```
> Well, that's certainly a lot more readable :-)  
>  
> I'm still baffled by how it works, though,,, I'm guessing that it switches  
> to RX upon key-up, but how does the first valve get HT? Unless it's that  
> tortuous path through the meter, the primary of the first transformer, the  
> 100K resistor, and the choke? How does it oscillate? The one tuned  
> circuit I can see seems to be fixed, but could it involve the variable  
> capacitors (why two of them?) across the loop antenna? And what exactly  
> do S1 and S3 do? S3 seems to short out the 0.5 resistor, which I guess  
> changes the bias? But S1 seems to change the bias as well, with the pot  
> being the volume/gain control?  
>  
> Sorry for all the questions, but this is a most unusual rig; talk about  
> a minimalist design... I guess the "Theory of Operation" manual is long  
> out of print :-)  
>  
> --  
> Dave Horsfall DTM (VK2KFU) "Those who don't understand security will suffer."  
> -----  
> BoatAnchors mailing list  
> BoatAnchors at imac.theporch.com  
> https://imac.theporch.com/mailman/listinfo/boatanchors  
  
--  
???? <mxc04040 at nifty.ne.jp>
```

From dave at horsfall.org Sat Feb 11 23:16:18 2017  
From: dave at horsfall.org (Dave Horsfall)  
Date: Sun, 12 Feb 2017 15:16:18 +1100 (EST)  
Subject: [BoatAnchors] BC-9 Diagram "Modernized"  
In-Reply-To: <20170212130114.EAC8.4E50566@nifty.ne.jp>  
References: <alpine.BSF.2.20.1702121213020.46495@aneurin.horsfall.org>  
<20170212130114.EAC8.4E50566@nifty.ne.jp>  
Message-ID: <alpine.BSF.2.20.1702121508040.46495@aneurin.horsfall.org>

On Sun, 12 Feb 2017, Katsuhiko Hirai wrote:

> Good afternoon from Japan.

Konichiwa, Katsuhiko-san :-) And that's about the limit of my Japanese, I'm afraid...

> It's so beautiful day with the clean navy-blue sky in Nara, Japan.

Cloudy here in Sydney, 31C outside; the last few days have been a heatwave, with temperatures of 40C or more. Fire conditions in New South Wales have been described as "catastrophic" i.e. the highest alert possible, and with people turning their air-conditioners up high there's been many power failures, but I'm OK (I'm not in the fire zone).

> Well, regarding your asking "How does it oscillate?"

[...]

Many thanks for the explanation!

Arigoto...

--

Dave Horsfall DTM (VK2KFU) "Those who don't understand security will suffer."

From mxc04040 at nifty.ne.jp Sat Feb 11 23:17:02 2017  
From: mxc04040 at nifty.ne.jp (Katsuhiko Hirai)  
Date: Sun, 12 Feb 2017 13:17:02 +0900  
Subject: [BoatAnchors] PS) regarding the role of S1 switch Re: BC-9 Diagram "Modernized"  
In-Reply-To: <20170212130114.EAC8.4E50566@nifty.ne.jp>  
References: <alpine.BSF.2.20.1702121213020.46495@aneurin.horsfall.org>  
<20170212130114.EAC8.4E50566@nifty.ne.jp>  
Message-ID: <20170212131700.EACC.4E50566@nifty.ne.jp>

PS) The S1 switch functions to cut the current the looped circuit thru a pot, in order to discharge the battery B (20V) under the turn off the unit. Then the S1 has to be synchronize the timing to turn on/off with the S2 for controlling the heater bus line.

Sorry to disturb all the reader,  
Katsuhiko Hirai, JA3ECA

On Sun, 12 Feb 2017 13:01:15 +0900

Katsuhiko Hirai via BoatAnchors <boatanchors at imac.theporch.com> san wrote:

>  
> Dear Dave, VK2KFU  
>  
> Good afternoon from Japan.  
> It's so beautiful day with the clean navey-blue sky in Nara, Japan.  
>  
> Well, regarding your asking "How does it oscillate?"  
> The switch S3 is for change the mode between send and recv on BC-9A.  
> Because the oscillation would be activate when the S3 is closed for  
> providing volume of free electrons into the cathode. Then the plate current  
> will be increased to expand to amplify into causing to oscillate in minimum.  
> Under closing the S3, when the Key is closed, the DC +120V would be provided  
> into the plate directly. During keying-on, the full power of VT-1 tube  
> would be generated in maximum, 5Watts(?), I suspect.  
>  
> Does anyone have more reliable idea?  
>  
> Have a nice imagining,  
> Best regards,  
> Katsuhiko Hirai, JA3ECA  
>  
>  
> On Sun, 12 Feb 2017 12:29:14 +1100 (EST)  
> Dave Horsfall via BoatAnchors <boatanchors at imac.theporch.com> san wrote:  
>  
> > Well, that's certainly a lot more readable :-)  
> >  
> > I'm still baffled by how it works, though.,, I'm guessing that it switches  
> > to RX upon key-up, but how does the first valve get HT? Unless it's that  
> > tortuous path through the meter, the primary of the first transformer, the  
> > 100K resistor, and the choke? How does it oscillate? The one tuned  
> > circuit I can see seems to be fixed, but could it involve the variable  
> > capacitors (why two of them?) across the loop antenna? And what exactly  
> > do S1 and S3 do? S3 seems to short out the 0.5 resistor, which I guess  
> > changes the bias? But S1 seems to change the bias as well, with the pot  
> > being the volume/gain control?  
> >



Katsuhiko, JA3ECA

On Sun, 12 Feb 2017 15:16:18 +1100 (EST)

Dave Horsfall via BoatAnchors <boatanchors at imac.theporch.com> san wrote:

> On Sun, 12 Feb 2017, Katsuhiko Hirai wrote:

>

> > Good afternoon from Japan.

>

> Konichiwa, Katsuhiko-san :-) And that's about the limit of my Japanese,  
> I'm afraid...

>

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>

> Cloudy here in Sydney, 31C outside; the last few days have been a  
> heatwave, with temperatures of 40C or more. Fire conditions in New South  
> Wales have been described as "catastrophic" i.e. the highest alert  
> possible, and with people turning their air-conditioners up high there's  
> been many power failures, but I'm OK (I'm not in the fire zone).

>

> > Well, regarding your asking "How does it oscillate?"

>

> [...]

>

> Many thanks for the explanation!

>

> Arigoto...

>

> --

> Dave Horsfall DTM (VK2KFU) "Those who don't understand security will suffer."

> -----

> BoatAnchors mailing list

> BoatAnchors at imac.theporch.com

> <https://imac.theporch.com/mailman/listinfo/boatanchors>

--

???? <mxc04040 at nifty.ne.jp>

From garygarlic at earthlink.net Sun Feb 12 20:41:36 2017

From: garygarlic at earthlink.net (Gary Woods)

Date: Sun, 12 Feb 2017 20:41:36 -0500

Subject: [BoatAnchors] Wanted: Sangamo .001 2500V

Message-ID: <fe32ac9fpsfo8i1agsga0eepikdg7fomg5@4ax.com>

This is the bypass for the cold end of the grid tank in a Viking KW; tests leaky, so likely offender in the intermittent loss of bias. Marked 5000V

test, 2500V working, with threaded holes in each end. Couldn't find the exact cap on the Bay place, but could likely make something work. The value matters, since it's the bottom end of the neutralization divider.. Hopefully, in somebody's junkque collection.

Thanks,

--

Gary Woods AKA K2AHC- PGP key on request, or at [home.earthlink.net/~garygarlic](http://home.earthlink.net/~garygarlic)  
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

From dean.gagnon at juno.com Mon Feb 13 13:33:01 2017  
From: dean.gagnon at juno.com (dean.gagnon at juno.com)  
Date: Mon, 13 Feb 2017 18:33:01 GMT  
Subject: [BoatAnchors] Flea Market Blues  
Message-ID: <20170213.133301.2562.0@webmail09.vgs.unttd.com>

"Buyer Beware"

The Crystal Calibrator I purchased in the Orlando Hamfest, upon closer viewing, did not have a 100 khz crystal in it (sure looked like the right crystal but...). Need to be a better flea market consumer.

Does anyone have a 100 khz xtal they are willing to part with and / or does anyone have any experience with the 100khz xtals on ebay new from China or NOS (glass) from Russia?

Dean  
KK1K

-----  
Warning: Don't Use Probiotics Before You See This  
Gundry MD  
<http://thirdpartyoffers.juno.com/TGL3131/58a1fc23acba87c236b9fst01vuc>

From dean.gagnon at juno.com Mon Feb 13 13:50:44 2017  
From: dean.gagnon at juno.com (dean.gagnon at juno.com)  
Date: Mon, 13 Feb 2017 18:50:44 GMT  
Subject: [BoatAnchors] Flea Market Blues  
Message-ID: <20170213.135044.2562.2@webmail09.vgs.unttd.com>

"Buyer Beware"



The Crystal Calibrator I purchased in the Orlando Hamfest, upon closer viewing, did not have a 100 khz crystal in it (sure looked like the right crystal but...). Need to be a better flea market consumer. Does anyone have a 100 khz xtal they are willing to part with and / or does anyone have any experience with the 100khz xtals on ebay new from China or NOS (glass) from Russia?

Dean  
KK1K

-----  
How To Fix Your Fatigue (Do This Daily)  
gundrymd.com  
<http://thirdpartyoffers.juno.com/TGL3131/58a20030ae4333012cest04vuc>

From nielwiegand at aggienetwork.com Tue Feb 14 15:40:55 2017  
From: nielwiegand at aggienetwork.com (Niel Wiegand)  
Date: Tue, 14 Feb 2017 14:40:55 -0600  
Subject: [BoatAnchors] Eico 720 Weak Backwave?  
Message-ID: <2ec530fb-3239-fe25-9753-8e38c2f14c8d@aggienetwork.com>

I was on 80 / 3559KHz this morning checking out one of my rigs to be used in the Novice Rig Roundup ( <http://novicerigroundup.com/> ). I found a carrier right on my crystal frequency. It turns out this was my own transmitter.

I've discovered that on 80 my Eico 720 is generating a backwave strong enough to hear around the shack when in either the tune or transmit mode. No problem on 40 and above.

Before ripping into my rig I'd like to check if anyone else has the same "problem". Maybe this is just the way it works. Leaving the oscillator running on key up does cut down on chirp.

73,  
Niel - W0VLZ  
<http://w0vlz.blogspot.com/>

From garygarlic at earthlink.net Tue Feb 14 15:57:29 2017  
From: garygarlic at earthlink.net (Gary Woods)  
Date: Tue, 14 Feb 2017 15:57:29 -0500  
Subject: [BoatAnchors] Eico 720 Weak Backwave?

In-Reply-To: <2ec530fb-3239-fe25-9753-8e38c2f14c8d@aggienetwork.com>  
References: <2ec530fb-3239-fe25-9753-8e38c2f14c8d@aggienetwork.com>  
Message-ID: <p4r6acdk1gdmifun782v8fgsgusb9direj@4ax.com>

On Tue, 14 Feb 2017 14:40:55 -0600, you wrote:

>

>I've discovered that on 80 my Eico 720 is generating a backwave strong  
>enough to hear around the shack when in either the tune or transmit  
>mode. No problem on 40 and above.

I'm not familiar with that rig, but if the XTAL osc is running continuously in TX mode, I'm sure you can hear it locally. Those glass NPN devices with the light inside run at higher levels than sand-state stuff, after all!

[I found an online schematic, and it looks like the osc is keyed, along with the final cathode; I gather you're not using an external VF0?

--

Gary Woods AKA K2AHC- PGP key on request, or at [home.earthlink.net/~garygarlic](http://home.earthlink.net/~garygarlic)  
Zone 5/4 in upstate New York, 1420' elevation. NY WO G

From nielwiegand at aggienetwork.com Tue Feb 14 17:13:09 2017  
From: nielwiegand at aggienetwork.com (Niel Wiegand)  
Date: Tue, 14 Feb 2017 16:13:09 -0600  
Subject: [BoatAnchors] Eico 720 Weak Backwave?  
Message-ID: <1df44e74-8001-1ed9-b741-ed5c7b328ffa@aggienetwork.com>

I was on 80 / 3559KHz this morning checking out one of my rigs to be used in the Novice Rig Roundup ( <http://novicerigroundup.com/> ). I found a carrier right on my crystal frequency. It turns out this was my own transmitter.

I've discovered that on 80 my Eico 720 is generating a backwave strong enough to hear around the shack when in either the tune or transmit mode. No problem on 40 and above.

Before ripping into my '720 I'd like to check if anyone else has the same "problem". Maybe this is just the way it works. Leaving the oscillator running on key up does cut down on chirp.

73,  
Niel - W0VLZ  
<http://w0vlz.blogspot.com/>

From n7rk at cox.net Sun Feb 19 16:16:59 2017  
From: n7rk at cox.net (Dave Hollander)  
Date: Sun, 19 Feb 2017 14:16:59 -0700  
Subject: [BoatAnchors] Removing Fungicide  
Message-ID: <58AA0B4B.4090506@cox.net>

Is there anyway to remove the WWII fungicide? I want to remove it from some octal tubes, not equipment.

Tnx es 73,

Dave N7RK

--

Dave Hollander N7RK  
Arizona Tube Supply  
<http://arizonatubesupply.com>

Ham Radio Page  
<http://n7rk.com>

From 1oldlens1 at ix.netcom.com Sun Feb 19 16:27:21 2017  
From: 1oldlens1 at ix.netcom.com (Richard Knoppow)  
Date: Sun, 19 Feb 2017 13:27:21 -0800  
Subject: [BoatAnchors] Removing Fungicide  
In-Reply-To: <58AA0B4B.4090506@cox.net>  
References: <58AA0B4B.4090506@cox.net>  
Message-ID: <bdd6a884-b4c7-7bc9-4454-c3e089eef5e6@ix.netcom.com>

I think you are talking about MFP, i.e. Moisture and Fungus Proofing. This gets discussed every so often. AFAIK, there is no sure-fire treatment. I have had some luck with paint remover of the kind that goes on as a gel. You must leave it on for quite some time and it may take more than one treatment. I have tried various solvents, including MEK (nasty stuff) without good results. Perhaps someone else has found something better than paint remover.

On 2/19/2017 1:16 PM, Dave Hollander via BoatAnchors wrote:

> Is there anyway to remove the WWII fungicide? I want to remove it from  
> some octal tubes, not equipment.  
>  
> Tnx es 73,  
>  
> Dave N7RK  
>

--

Richard Knoppow  
1oldlens1 at ix.netcom.com  
WB6KBL

From gumbear at pacbell.net Sun Feb 19 20:27:57 2017  
From: gumbear at pacbell.net (Arden Allen)  
Date: Sun, 19 Feb 2017 17:27:57 -0800  
Subject: [BoatAnchors] Removing Fungicide  
In-Reply-To: <58AA0B4B.4090506@cox.net>  
References: <58AA0B4B.4090506@cox.net>  
Message-ID: <CEF7150078BC47D983640685EE1059C3@Lenovo>

> Is there anyway to remove the WWII fungicide? I want to remove it from  
some octal tubes, not equipment.

Richard K mentions paint stripper which is a step in the right direction.  
However be warned, such powerful ingredients can ruin phenolic tube bases  
and strip the paint off of metal tubes. So first take a class in the  
subject:

[https://en.wikipedia.org/wiki/Paint\\_stripper](https://en.wikipedia.org/wiki/Paint_stripper)

I have used straight methylene chloride (not available at Home Depot ;-) to  
strip epoxy off of potted components but to my chagrin the expanding epoxy  
destroyed the underlying components. But if you just want to remove MFP  
from glass tubes and can keep the solvent out/off of the base then it's just  
a matter of time before the varnish comes all off.

WARNING: Regarding methylene chloride and all paint removers in general:  
Do not breathe fumes, do it outside or where you can change room air  
rapidly. Do not let solvent contact skin, flush skin if accidentally  
contacted. Wear solvent proof gloves or be damn careful. Store solvent out  
of reach of children and irresponsible others.

Good luck.

Arden Allen  
KB6NAX

He who is cruel to animals becomes  
hard also in his dealings with men.  
We can judge the heart of a man by  
his treatment of animals.  
?Immanuel Kant

From 1oldlens1 at ix.netcom.com Sun Feb 19 21:52:58 2017  
From: 1oldlens1 at ix.netcom.com (Richard Knoppow)  
Date: Sun, 19 Feb 2017 18:52:58 -0800  
Subject: [BoatAnchors] Circuit for BBC L-1 mic filter  
Message-ID: <3309bac4-2320-1d33-2b52-e1e05150a786@ix.netcom.com>

This is a very long shot. I am restoring a Marconi/BBC model L-1 "lip mic". I have the microphone working but the filter that was used with it has an open input transformer. Nothing seems to have been published on it. I wonder if anyone on this list has a schematic. The same filter appears to have been used on the mid-1950s Type L-2 microphone. For those not familiar with it these were close talking, noise cancelling microphones used by the BBC for sports and other field use. I have no idea what mailing lists to ask for help on.

--

Richard Knoppow  
1oldlens1 at ix.netcom.com  
WB6KBL

From navy.radio at gmail.com Fri Feb 24 11:31:00 2017  
From: navy.radio at gmail.com (Nick England)  
Date: Fri, 24 Feb 2017 11:31:00 -0500  
Subject: [BoatAnchors] FS - RBB, RBC, LP, R-390A, R-389, CV-591 + more - Oregon  
Message-ID: <CAB55hNfe9yLKeKc6sRC8ddCr+LyJxjxva9Y-UAY-DhDb5dMPRA@mail.gmail.com>

Contact John at jlab at usa.com  
He said he is in Oregon and that it was OK to let my friends know.  
The radio gear is very nicely mounted in two racks ("twin towers"). I have put his photos at  
<http://www.virhistory.com/ham/oregon-17/>

I know nothing more other than it looks like a very very nice set of gear.  
Nick England K4NYW  
[www.navy-radio.com](http://www.navy-radio.com)

----- Forwarded message -----  
From: john labossiere <jlab at usa.com>  
Date: Mon, Feb 20, 2017 at 2:58 PM  
Subject: WW2 Radio Gear  
To: navy.radio at gmail.com

Hello,

My name is John LaBossiere and I am writing you in regards to some equipment that I have for sale. With the passing of dear friend I have inherited some beautiful radio gear that I would like to sell.

He referred to them as the ?twin towers?, He has rebuilt all components and they were in complete working order when stored. He was very meticulous and was an advanced HAM himself. I am not sure if you would be interested in something like this or know of someone who is. I have additional items as well, operation manuals, service manuals etc?other individual units, parts, testing equipment as well.

I have attached some pictures of the gear for your review. I have some additional pictures if you are interested.

Thank you for your time.

Regards,

John LaBossiere  
jlab at usa.com